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Product title:	CorrLog-Sandlog Terminal
Package title:	

Document title:	**CORRLOG (ATEX) TERMINAL PN 22780KIT USER MANUAL**											
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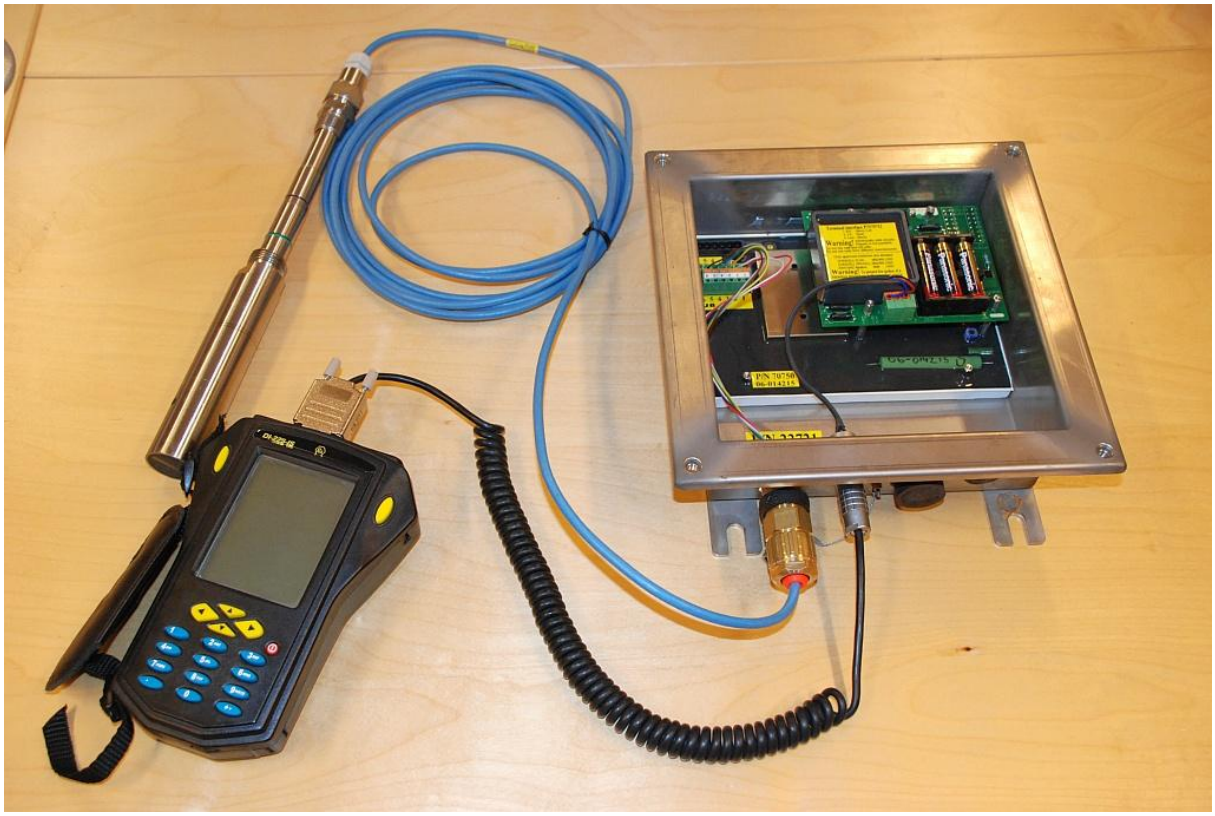
	Prod No.		**Orig.**		**Disc.**		**Type**		**Seq. no.**	**Page:**	1 **of** 19	
Roxar doc. No.:	612	**-**	16959	**-**	I	**-**	MU	**-**	0010			
Client doc. No.:					**Client rev. No.:**					**Attachment:**	NA	

Tag No.:				
P.O. No. (contract No.):	**Roxar Ref. No.:**	**System code:**	**SDRL code:**	**Area/Location:**

Clients approval: ¨ Not for client approval **q** Accepted **q** Accepted with comments			**q** Not accepted, revise and resubmit **q** Issued for information **q** Accepted with comments. Interface frozen.		**Sign.:** **Date:**
Internal approval:	**Rev.:** 01	**Date:** 2010-06-17	**Made by:** Erling Holten Wiken	**Checked by:** Roar Støen	**Approved by:** Geirfinn Sirnes
Reason for issue:	**Issued for use**				

CorrLog Terminal User Manual



Revision 1,
June 2010

Table of contents:

1 INTRODUCTION

This manual describes the set up and use of the Roxar CorrLog Terminal unit, Roxar Part no. 22780KIT (complete with charger and cables).

2 ABBREVIATIONS AND TERMS

Logger	Denotes the CorrLog and/or the SandLog instrument
Roxar	Roxar Flow Measurement AS

3 RELATED OR REFERENCED DOCUMENTS

[1]	612-16959-I-DJ-0005	DI-225-IS User Manual and Data Sheet
[2]	611-16959-I-MU-0008	CorrLog & SandLog User Manual
[3]	470-16959-I-MU-0003	MultiTrend User Manual

4 CONTENTS

Before you begin, check that you have all items needed according to the following list:

Qty	Item	Roxar Part no.
1	Handheld Terminal DI-225-IS	22780
1	MultiTrend CD (Offline combined version)	15155-5
1	Cable Terminal to logger	22782_B
1	Cable Terminal to old type logger (MultiLog)	22781

5 PREPARATIONS

Before you begin, please familiarize yourself somewhat with the terminal (DI-225-IS) by reading the device manual [1]. Pay special attention to section 2, the key configuration and display contrast settings. Also examine how to use the terminal, by pointing device on the touch screen and by using the keys.

Also please familiarize yourself with the manuals for the loggers [2] and the software [3], as this manual is written with the assumption that the user is somewhat familiar with the equipment used.

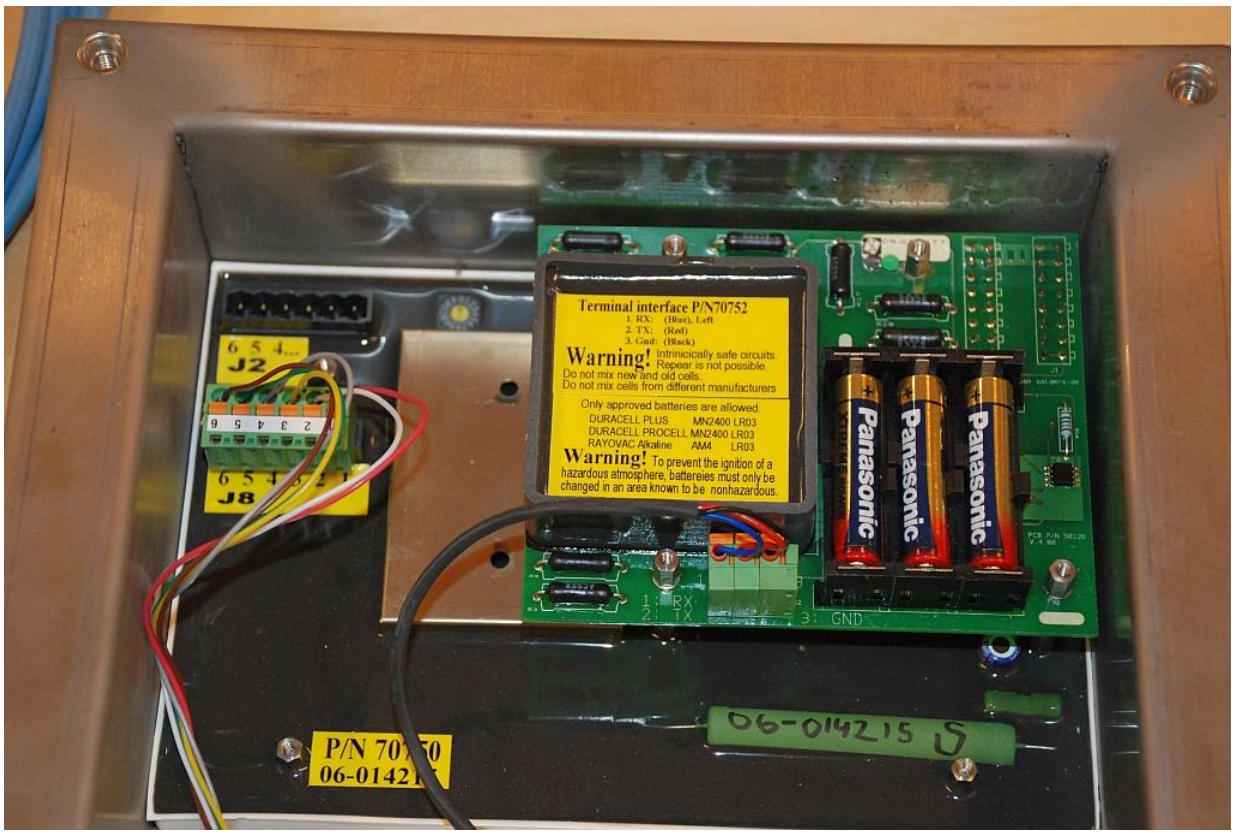
6 SYSTEM DESCRIPTION

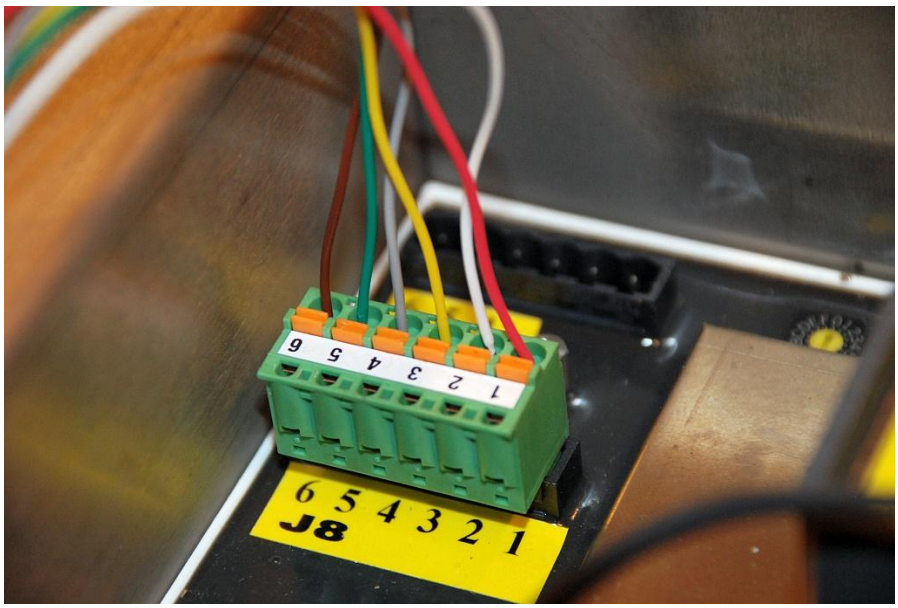
The system is based on a data logger (CorrLog or SandLog) running on batteries. The logger is not connected to any system, and data from it must be retrieved using a hand carried terminal (CorrLog Terminal). The logger has an intrusive probe attached, that is uses to measure corrosion or erosion. The probe is completely passive, and is energized by the logger only when a measurement is taken. The logger stores measurements (500 erosion, 1500 corrosion) and can keep these for a long time, even if the batteries run out (flash memory). The data must be retrieved using a terminal. The terminal is also used to configure the logger with time, probe type and measurement frequency.

7 CONNECTIONS

The terminal unit The terminal unit is delivered with a serial to logger cable. Connect this to the terminal (9 pin DSUB female), and connect the 6 pin LEMO connector to the logger.

Inside the logger, there are two connections – the serial connection from the terminal, and the probe connection on the base board. For more information on these, see the logger manual [2].



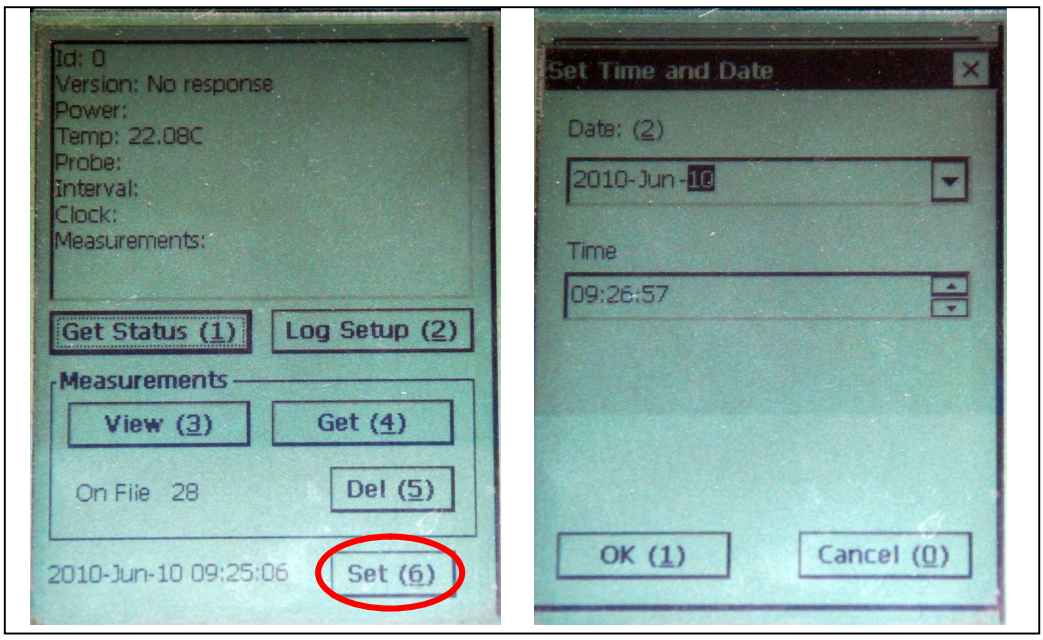


Note that the shown connections are for an ER corrosion probe connected in a CorrLog instrument. For other probes, connections to base board may vary.

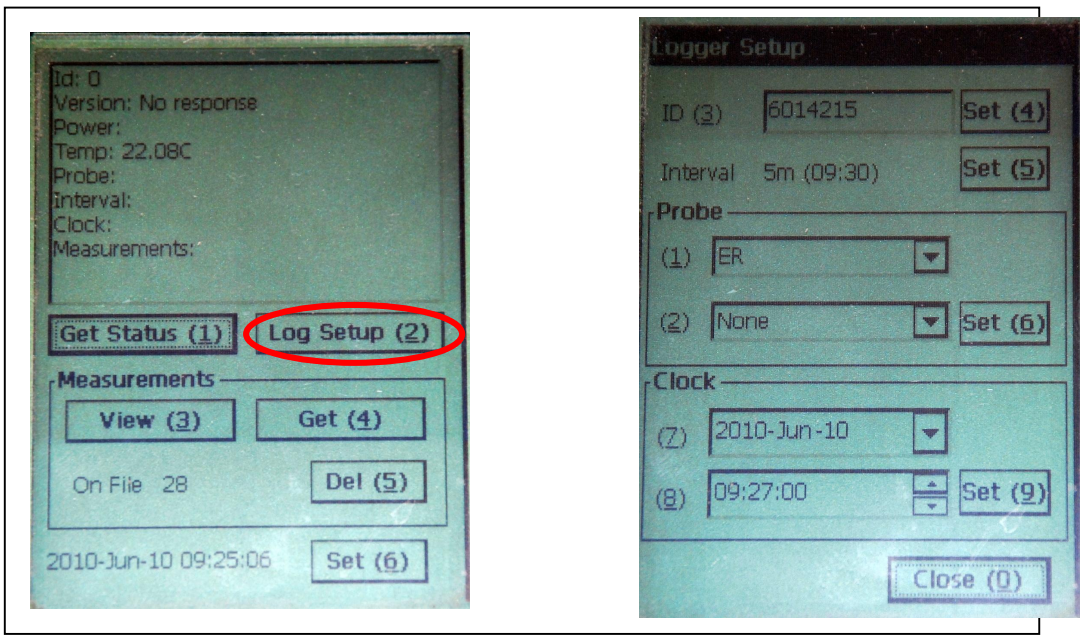
8 CONFIGURING LOGGER AND TERMINAL

Turn on the terminal. The screen should look something like below. If the screen shows "Windows" desktop instead, the software loader is probably damaged. Return the unit to Roxar for repair.

Set time and date by pressing "Set" or "6" on keyboard. Adjust time and date.

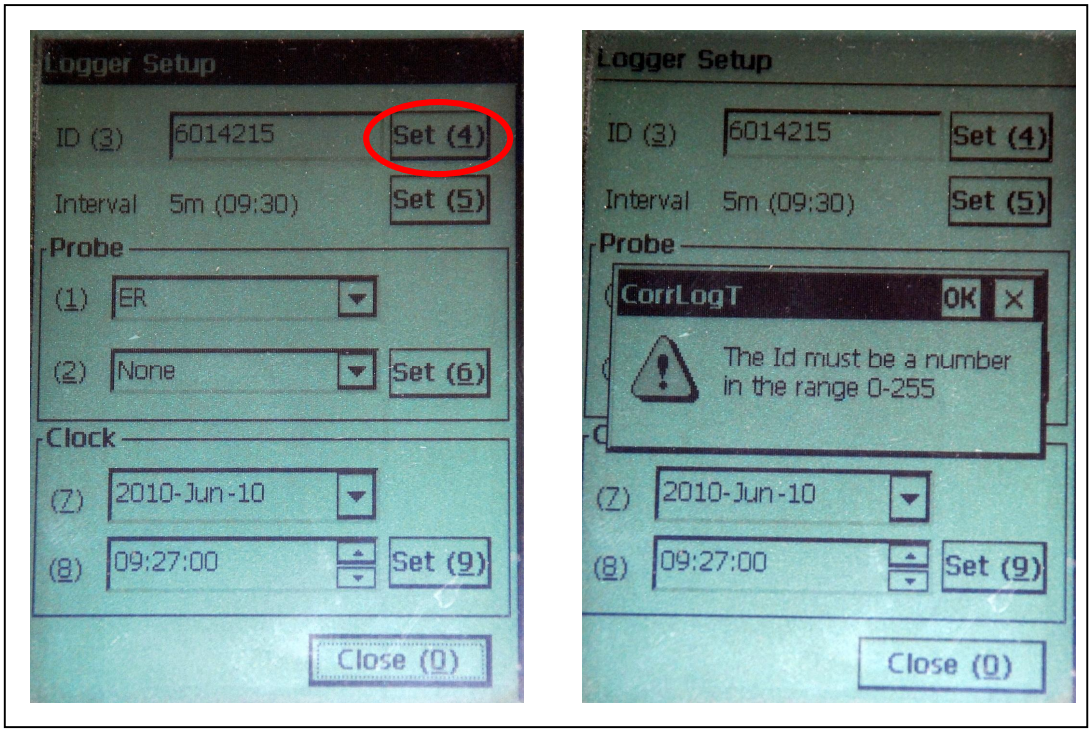


Now, enter logger setup by selecting "Log Setup" or "2" on keypad.

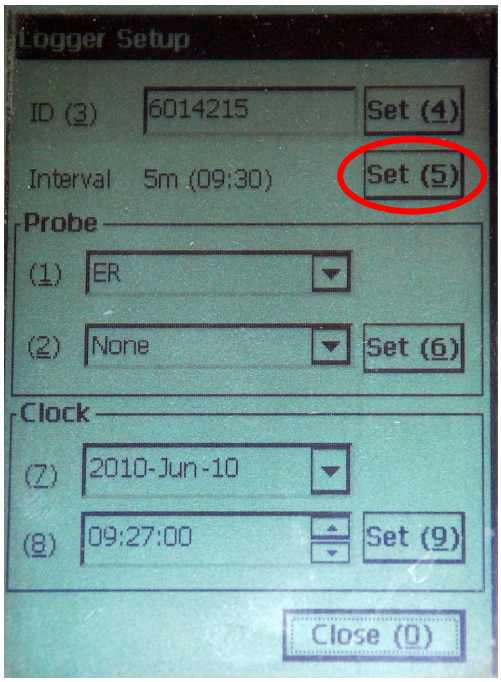


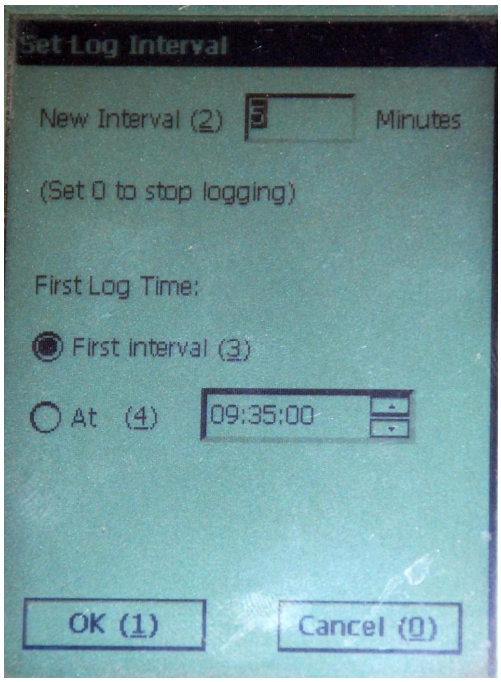
If you want, you can enter an ID for the logger connected, but the terminal will do this automatically.

Note: you can only insert ID between 0-255. The ID automatically generated is a 7 digit number that is coded in the logger internal sw. Only set ID manually if you already have a MultiTrend configuration that you need to keep as is.



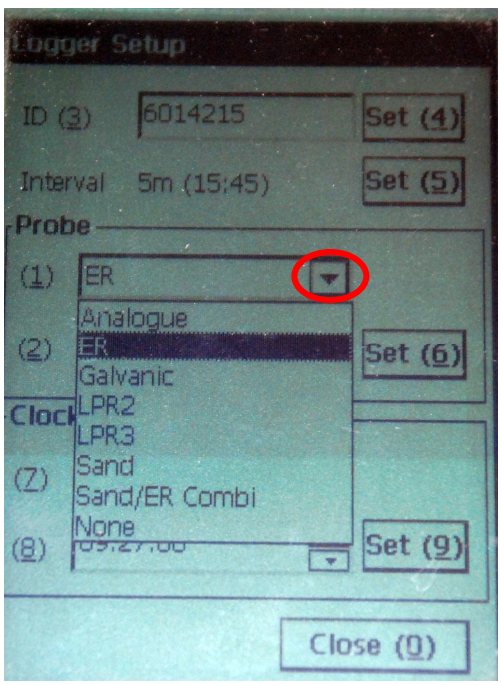
Adjust the logging interval. To understand how this should be set up, please confer with the logger user manual [2]. In short – the more frequent you measure, the more often you need to replace the internal batteries in the logger.

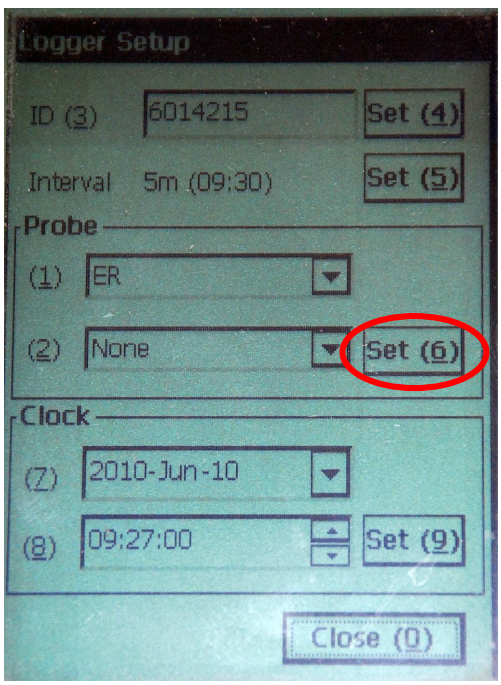




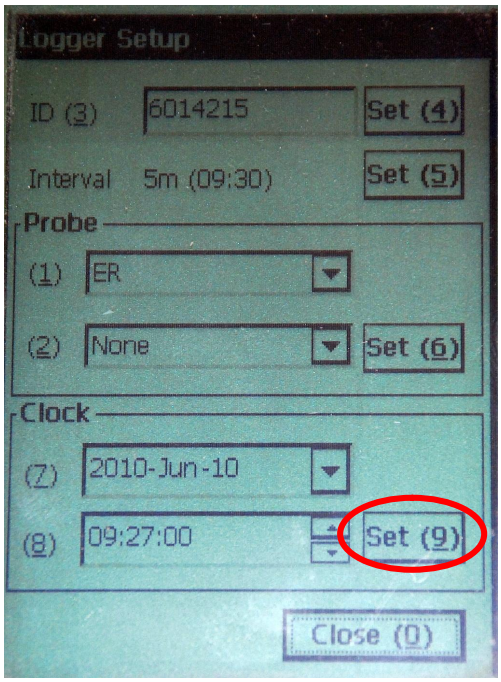
You can also here set a specific time for logging to start, or it will start immediately after you exit set up.

Select the probe type. The probe 2 selection is only applicable if you are using the terminal with old type of loggers (MultiLog or SandLog, round logger. New loggers are square).





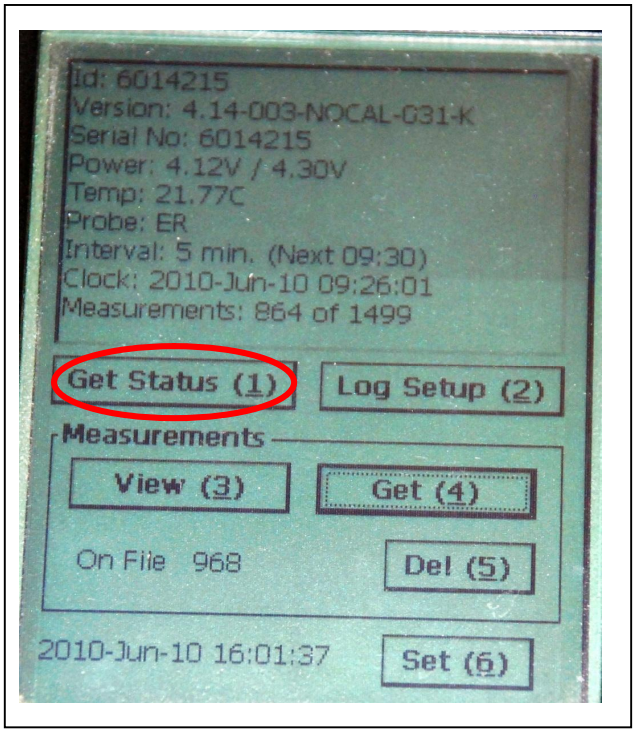
Synchronize the clocks in the terminal and the logger. The logger now has the same time and date as the terminal.



This concludes the logger set up, and the logger will now measure at set intervals.

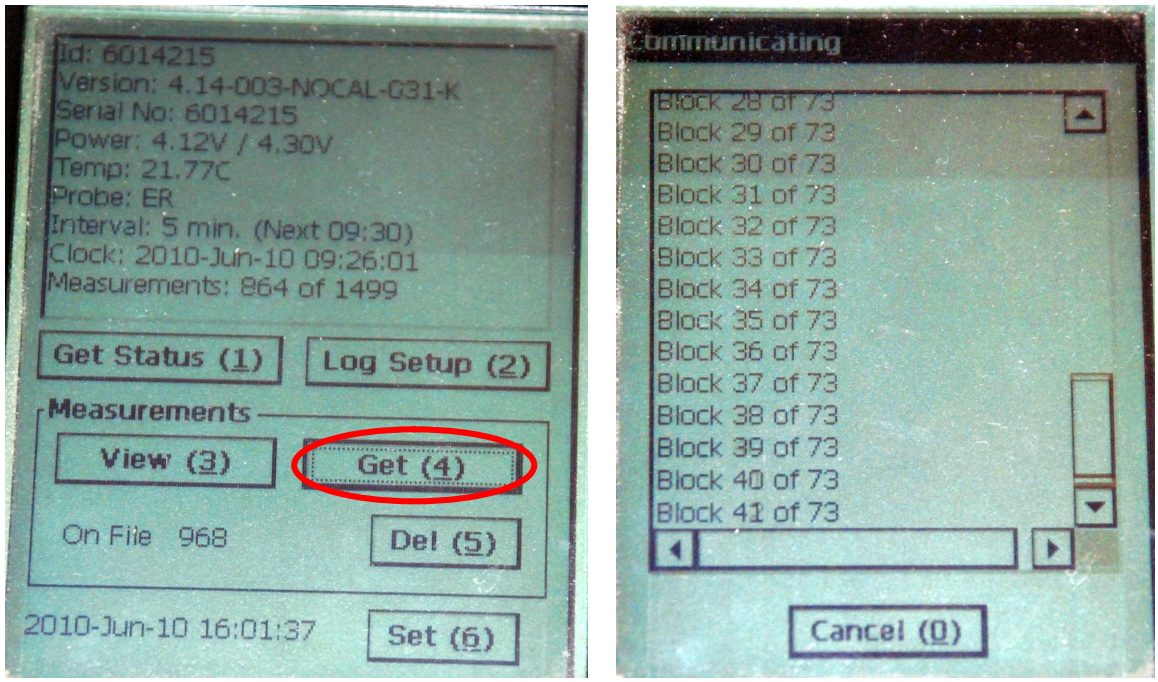
9 READING OUT CONFIGURATION OF LOGGER

For already configured units, you can verify the set up by connecting the terminal to the logger and pressing the “Get Status” button. The status will be displayed in the top section of the window.



10 DOWNLOADING DATA FROM LOGGER TO TERMINAL

When you have configured loggers and these have been logging data and have data ready for retrieval, connect the terminal to the logger using the terminal cable and press the “Get” button.



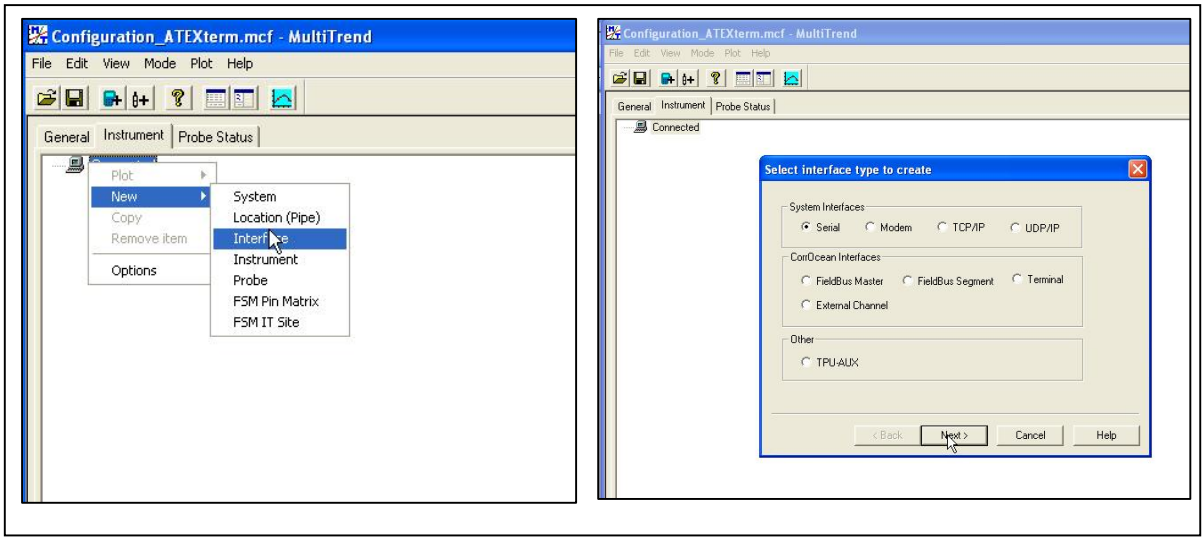
The display will show the download progress and then return to the main view with updated status for number of measurements on file. Note that the logger will not contain the downloaded measurements anymore, as logger flash memory is cleared after successful data retrieval to terminal.

Now you can go to the next logger and repeat as needed until all data from all loggers are collected.

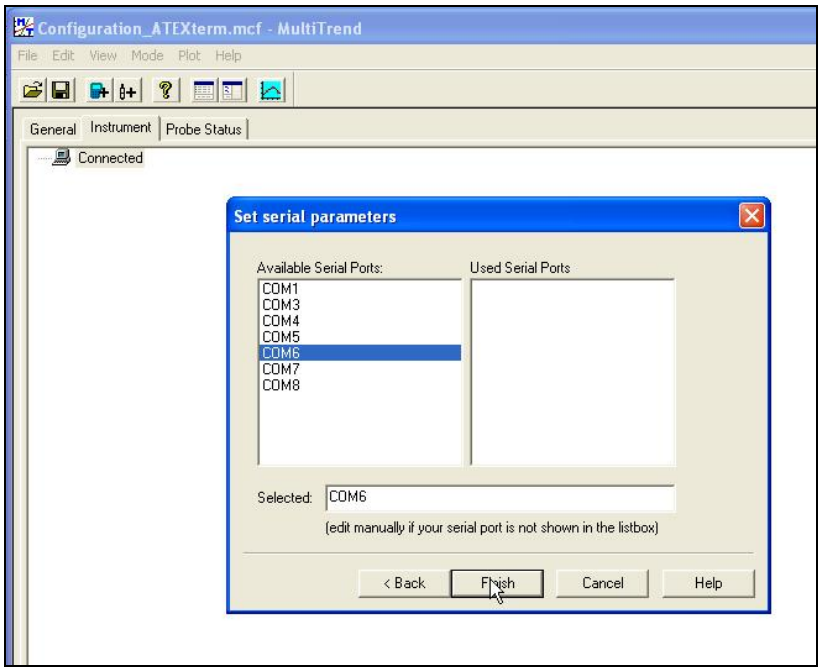
11 STORE DATA FROM TERMINAL TO PC

This manual assumes that MultiTrend sw is already installed, and that the user is somewhat familiar with this. Also that a serial cable between the terminal and the PC is available and connected.

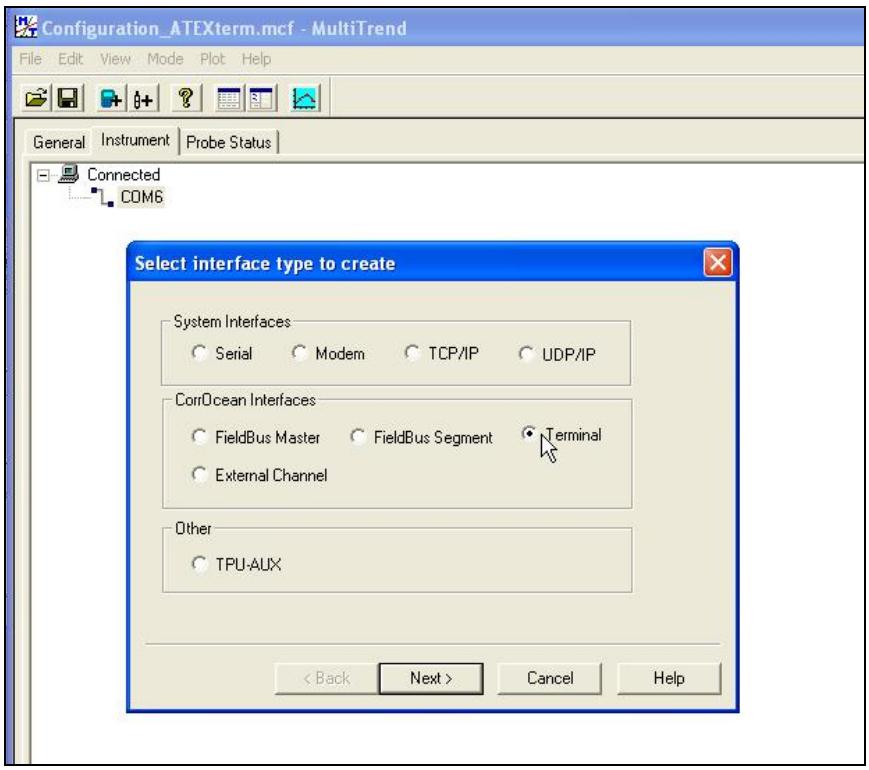
Start MultiTrend, and set up a serial interface by right clicking the computer icon and selecting interface – serial.



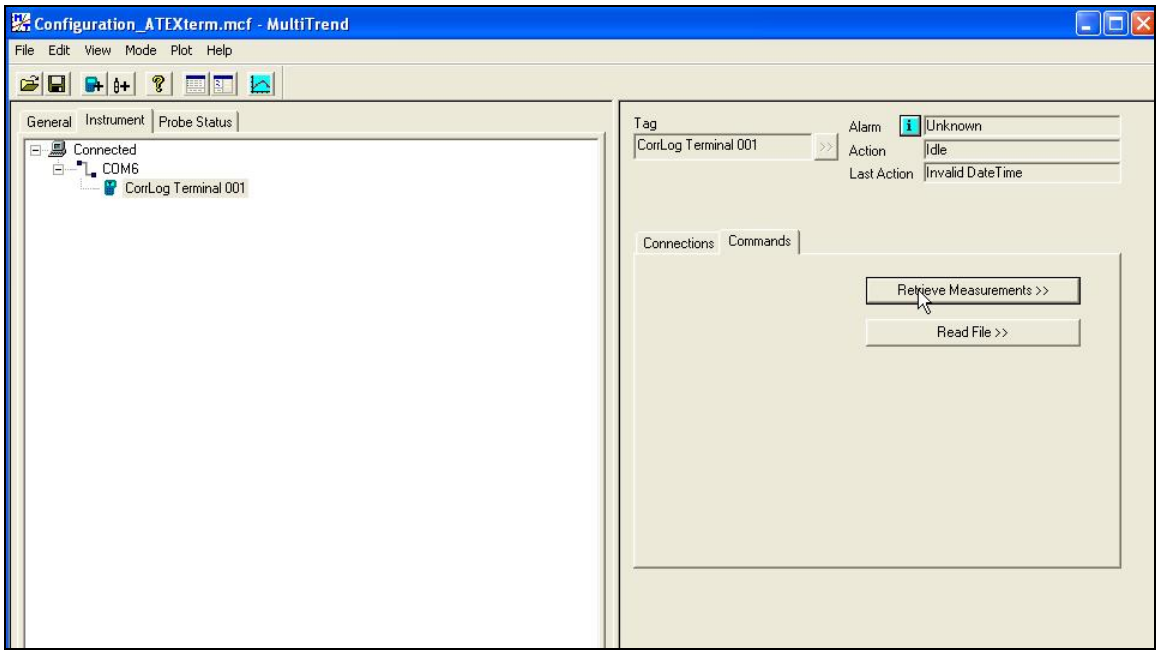
Select the appropriate COM port according to your PC (COM6 used in this example).



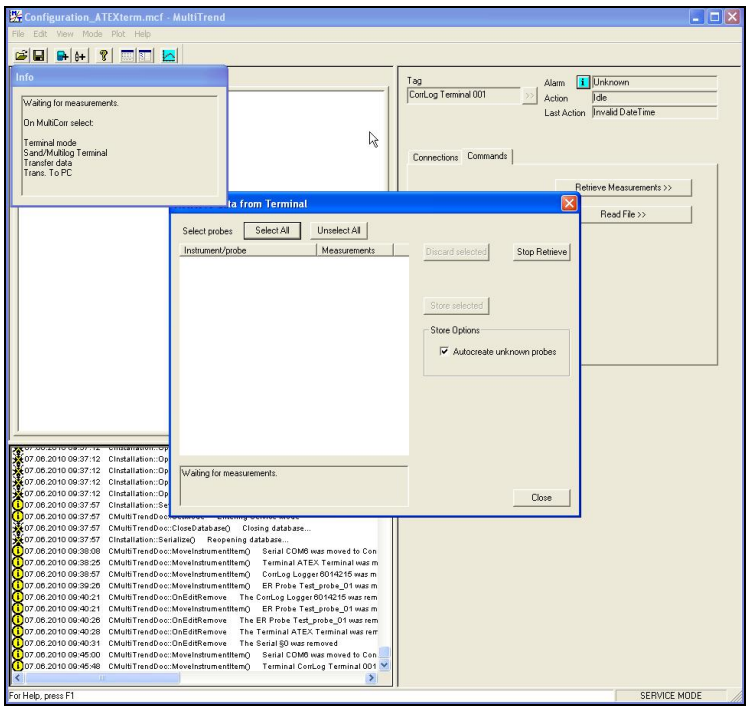
Then set up terminal by right clicking on the serial interface icon and selecting interface – terminal.



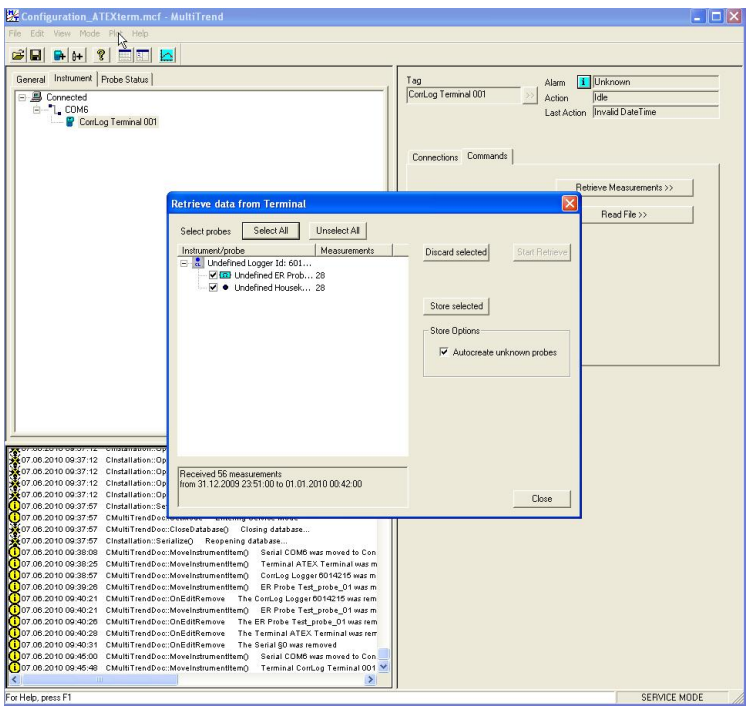
Now the terminal interface is created, select the terminal in the main window by left clicking. On the right hand side, select “Retrieve Measurements”.



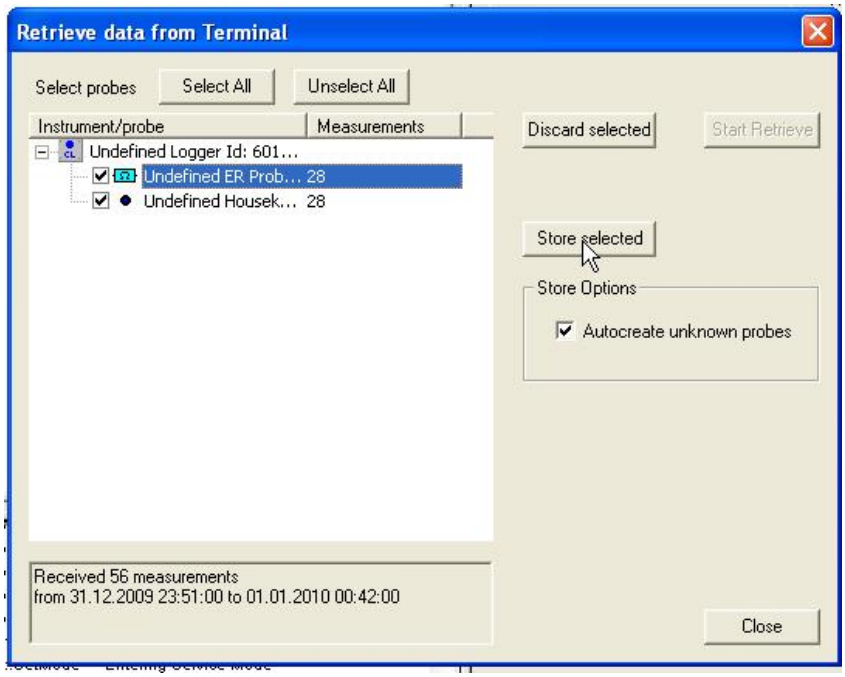
The sw will now try to download data from the terminal. If no terminal is present or it is not turned on, the sw will wait for this (indefinitely). If nothing happens, check your connections.



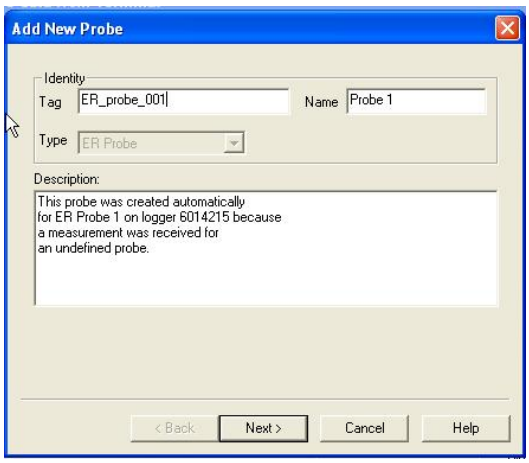
After connection to the terminal is established, the terminal will be interrogated to establish the number of measurements it has in memory.

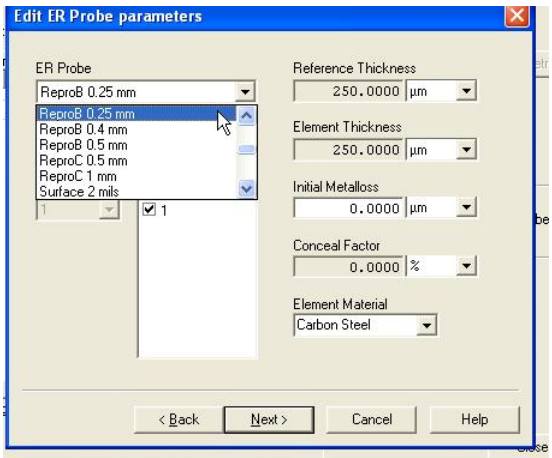


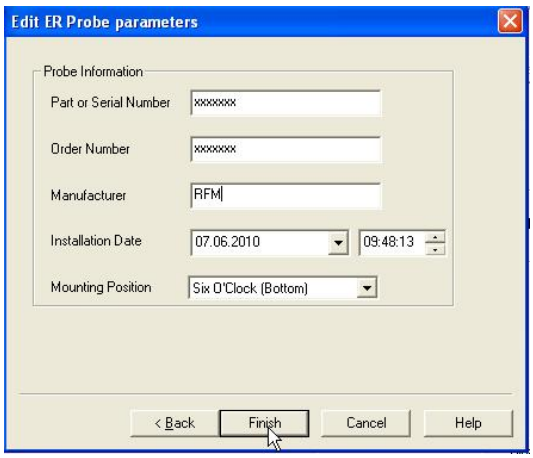
Make sure data is selected by including the checkmark to the left of each line, include both the probe and housekeeping data. The housekeeping data contains information about battery status and capacitor charge in the respective loggers.



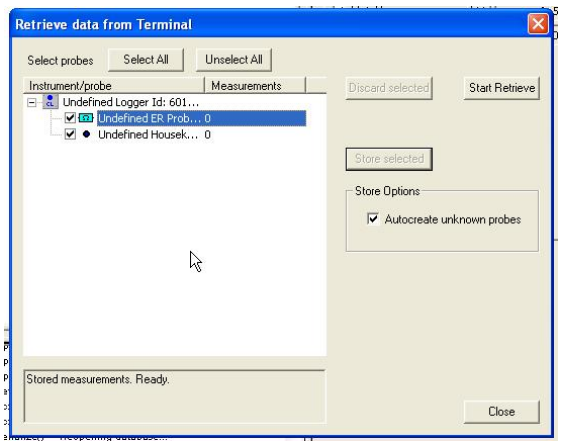
All new loggers/probes in the configuration must then do a setup. Enter desired probe TAG number, and probe information.



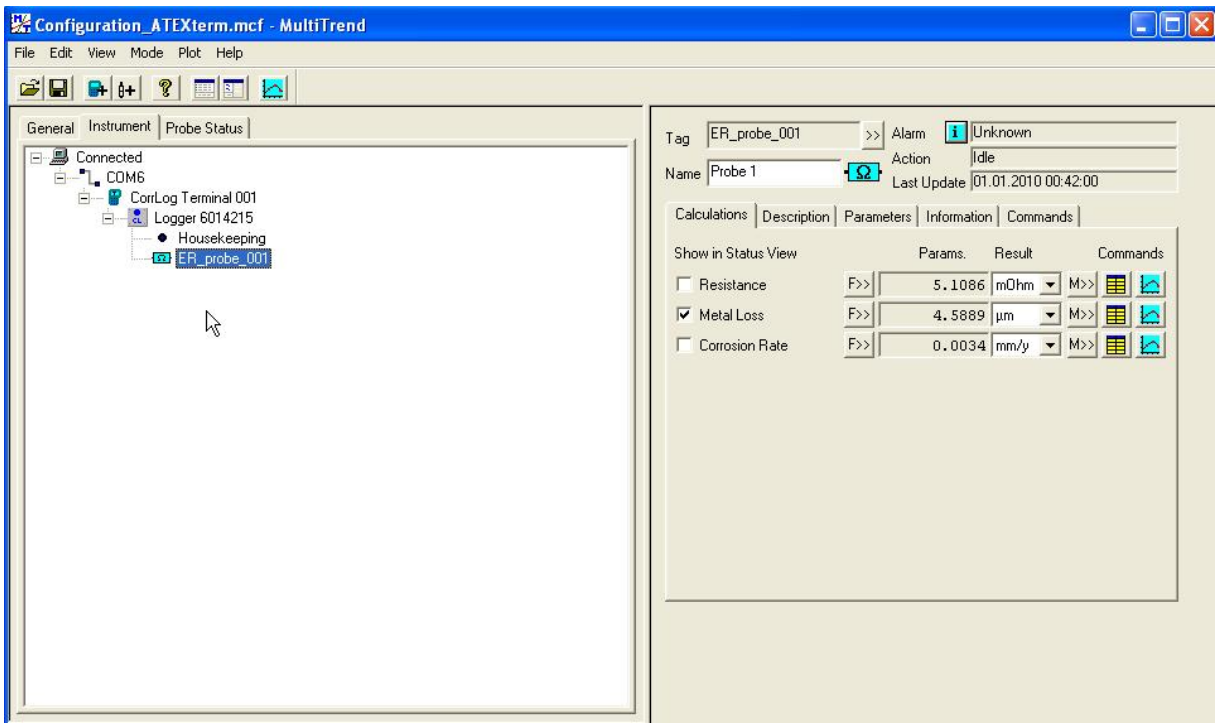




Now the probe data will be stored in the PC sw, and you may close the dialogue window.



You can now view the stored data by normal means. Refer to the sw manual for more information.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COM6
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Logger 6014215
Housekeeping
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